

DECOMET 1009/10

Aluminiumsuspension



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Technical Data:

Typical Analysis:

Non volatile content:

approx. 10 %

Solvent:

N-propylacetate

Mean particle diameter¹⁾:

approx. 12 - 15 µm

1) laser granulometry (Sympatec Helos)

Characteristics:

- Aluminium pigment of high brilliance
- Flake structure (lamellar)
- Reflecting mirror-like surface
- Extremely bright and metallic-brilliant effects

Application:

- Gravure printing ink
- Flexographic printing ink



Recommendation for processing:

Recommended rate of pigmentation:

Printing Inks: 15 - 60 %, depending on the printing process, the required hiding power and the required metallic effect

The brilliance of DECOMET can be affected by solvents or the binding agent of the basic formulation. Laboratory tests are recommended. High mechanical shear during the employment of turbo mixers may cause loss of brilliance and metallic effect.

Keep drums firmly closed, in order to avoid evaporation of solvent. Running dry might cause agglomerates.

DECOMET tends to sedimentation because of its low viscosity, so stir up before use.

Date of issue: 18.11.2004

Data contained in this publication are based on careful investigations and are intended for information only. Any user is obliged to carry out tests under his own responsibility as to the suitability of the product for a particular use and to investigate the possible violation of industrial property rights of third parties. Information is therefore not binding and cannot be construed as guaranteeing specific properties of products as established by law. Any liability as to the exactness and completeness of data is thus excluded. We apply our General Sales Conditions.



MS-17001

Material Safety Data Sheet

According to 91/155 EEC

Printing date 04.03.2004

Reviewed on 19.11.2002

1 Identification of substance:

*Product details:

*Trade name: **DECOMET 1009/10**

*Application of the substance / the preparation metallic pigment for paints, printing inks and plastics

*Manufacturer/Supplier:

Schlenk Metallpulver GmbH & Co KG
Barnsdorfer Hauptstr. 5
D-91154 Roth-Barnsdorf

Tel.: ++49/9171/808-0
Fax.: ++49/9171/808200

*Informing department:

Department QSB
Tel.: ++49/9171/808320
Fax : ++49/9171/808204




*Emergency information: ++49/9171/808-0

2 Composition/Data on components:

*Chemical characterization

*Description: Mixture of the substances listed below with harmless additions.

*Dangerous components:

CAS: 109-60-4 EINECS: 203-686-1	propyl acetate	 Xi,  F; R 11-36-66-67	80-90%
CAS: 7429-90-5 EINECS: 231-072-3	aluminium powder (stabilized)	 F; R 10-15	10-20%

3 Hazards identification

*Hazard designation:



Xi Irritant
F Highly flammable

*Information pertaining to particular dangers for man and environment

The product has to be labelled due to the calculation procedure of the "General Classification guideline for preparations of the EU" in the latest valid version.

R 11 Highly flammable.

R 36 Irritating to eyes.

R 67 Vapours may cause drowsiness and dizziness.

*Classification system

The classification is in line with current EC lists. It is expanded, however, by information from technical literature and by information furnished by supplier companies.

4 First aid measures

*After inhalation Supply fresh air; consult doctor in case of symptoms.

*After skin contact Instantly wash with water and soap and rinse thoroughly.

*After eye contact

Rinse opened eye for several minutes under running water. If symptoms persist, consult doctor.

*After swallowing Seek medical treatment.

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5 Fire fighting measures

***Suitable extinguishing agents**

CO₂, extinguishing powder or water jet. Fight larger fires with water jet or alcohol-resistant foam.

***For safety reasons unsuitable extinguishing agents** Water with a full water jet.

6 Accidental release measures

***Person-related safety precautions:** Wear protective equipment. Keep unprotected persons away.

***Measures for environmental protection:**

Prevent material from reaching sewage system, holes and cellars.

Do not allow product to reach sewage system or water bodies.

If material reaches soil inform authorities responsible for such cases.

***Measures for cleaning/collecting:**

Absorb with liquid-binding material (sand, diatomite, acid binders, universal binders, sawdust).

Ensure adequate ventilation.

Do not flush with water or aqueous cleansing agents

7 Handling and storage

***Handling**

***Information for safe handling:**

Store in cool, dry place in tightly closed containers.

Ensure good ventilation/exhaustion at the workplace.

Prevent formation of aerosols.

***Information about protection against explosions and fires:**

Keep ignition sources away - Do not smoke.

Protect against electrostatic charges.

***Storage**

***Requirements to be met by storerooms and containers:** Store in cool location.

***Information about storage in one common storage facility:** Not required.

***Further information about storage conditions:**

Keep container tightly sealed.

Store in cool, dry conditions in well sealed containers.

8 Exposure controls and personal protection

***Additional information about design of technical systems:** No further data; see item 7.

***Components with critical values that require monitoring at the workplace:**

109-60-4 propyl acetate

OEL Short-term value: 1050 mg/m³, 250 ml/m³

Long-term value: 840 mg/m³, 200 ml/m³

7429-90-5 aluminium powder (stabilized)

OEL Short-term value: 5 mg/m³

Long-term value: 5 mg/m³

***Additional information:** The lists that were valid during the compilation were used as basis.

***Personal protective equipment**

***General protective and hygienic measures** Wash hands during breaks and at the end of the work.

***Breathing equipment:**

In case of brief exposure or low pollution use breathing filter apparatus. In case of intensive or longer exposure use breathing apparatus that is independent of circulating air.

***Protection of hands:** Rubber gloves

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***Material of gloves**

The selection of the suitable gloves does not only depend on the material, but also on further marks of quality and varies from manufacturer to manufacturer. As the product is a preparation of several substances, the resistance of the glove material can not be calculated in advance and has therefore to be checked prior to the application.

***Penetration time of glove material**

The exact break through time has to be found out by the manufacturer of the protective gloves and has to be observed.

Eye protection:** Tightly sealed safety glasses.Body protection:** Impervious protective clothing**9 Physical and chemical properties:*****General Information**

Form:	Fluid
Colour:	Silver-coloured
Smell:	Fruit-like

***Change in condition**

Melting point/Melting range: Not determined
Boiling point/Boiling range: 101°C

Flash point:** 10°CIgnition temperature:** 430°C***Self-inflammability:** Product is not selfigniting.***Danger of explosion:** Product is not explosive. However, formation of explosive air/steam mixtures is possible.***Critical values for explosion:**

Lower: 1.7 Vol %
Upper: 8.0 Vol %

Steam pressure at 20°C:** 33 mbarDensity at 20°C** 0.958 g/cm³***Solubility in / Miscibility with**

Water: Not miscible or difficult to mix

***Solvent content:**

Organic solvents: 80-90 %

Solids content:** 10-20 %**10 Stability and reactivity**Thermal decomposition / conditions to be avoided:**

No decomposition if used and stored according to specifications.

Dangerous reactions** Reacts with strong oxidizing agentsDangerous products of composition:** No dangerous decomposition products known

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11 Toxicological information

*Acute toxicity:

*Primary irritant effect:

*on the skin: Irritant for skin and mucous membranes.

*on the eye: Irritant effect.

*Sensitization: No sensitizing effect known.

*Additional toxicological information:

In addition to local irritant manifestations, there is a narcotic effect when inhaling high concentrations, with high danger of central respiratory arrest.

12 Ecological information:

*Information about elimination (persistence and degradability):

*Other information: The product is biodegradable.

*General notes:

Water hazard class 1 (Self-assessment): slightly hazardous for water.

Do not allow undiluted product or large quantities of it to reach ground water, water bodies or sewage system.

13 Disposal considerations

*Product:

*Recommendation

Must be specially treated under adherence to official regulations.

Must not be disposed of together with household garbage. Do not allow product to reach sewage system.

*European waste catalogue

08 03 12 waste ink containing dangerous substances

*Uncleaned packagings:

*Recommendation: Disposal must be made according to official regulations.

14 Transport information

*Land transport ADR/RID and GGVS/GGVE (cross-border/domestic)



*ADR/RID-GGVS/E Class: 3 Flammable liquids.

*Kemler Number: 33

*UN-Number: 1276

*Packaging group: II

*Label 3

*Maritime transport IMDG/GGVSea:



*IMDG/GGVSea Class: 3

*UN Number: 1276

*Label 3

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*Packaging group: II
 *EMS Number: F-E,S-D
 *Marine pollutant: No
 *Correct technical name: PROPYL ACETATE, mixture

*Air transport ICAO-TI and IATA-DGR:



*ICAO/IATA Class: 3
 *UN/ID Number: 1276
 *Label: 3
 *Packaging group: II
 *Correct technical name: PROPYL ACETATE, mixture

15 Regulatory information

***Designation according to EC guidelines:**

The product has been classified and labelled in accordance with EC Directives / Ordinance on Hazardous Materials (GefStoffV)

***Code letter and hazard designation of product:**

Xi Irritant
 F Highly flammable

***Risk phrases:**

11 Highly flammable.
 36 Irritating to eyes.
 67 Vapours may cause drowsiness and dizziness.

***Safety phrases:**

7/8 Keep container tightly closed and dry.
 16 Keep away from sources of ignition - No smoking.
 25 Avoid contact with eyes.

***National regulations**

***Technical instructions (air):**

Class	Share in %
NK	90.0

*Water hazard class: Water hazard class 1 (Self-assessment): slightly hazardous for water.

16 Other information:

These data are based on our present knowledge. However, they shall not constitute a guarantee for any specific product features and shall not establish a legally valid contractual relationship.

***Relevant R-phrases**

10 Flammable.
 11 Highly flammable.
 15 Contact with water liberates extremely flammable gases.
 36 Irritating to eyes.
 66 Repeated exposure may cause skin dryness or cracking.
 67 Vapours may cause drowsiness and dizziness.

*Department issuing data specification sheet: Department QSB

*Contact: Dipl.-Ing.(FH) Milisterfer

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